NOTE: The document identifier and heading have been changed on this page to reflect that this is a performance specification. There are no other changes to this document. The document identifier on subsequent pages has not been changed, but will be changed the next time this document is revised.

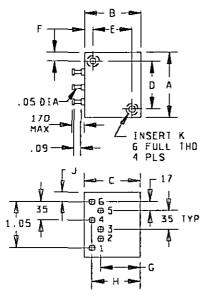
MIL-PRF-27/335C 17 January 1986 SUPERSEDING MIL-T-27/335B 16 January 1985

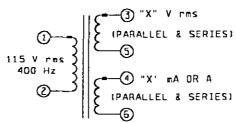
PERFORMANCE SPECIFICATION SHEET

TRANSFORMERS, POWER, 50 VOLTAMPERES, 400 HZ, TF5S03ZZ

This specification is approved for use by all Departments and Agencies of the Department of Defense.

The complete requirements for acquiring the transformer described herein shall consist of this specification and the latest issue of MIL-T-27.





(SEE TABLE I FOR VALUE OF "X")
CIRCUIT DIAGRAM

INCHES		mm	
Α	2.00 ±.02	(50.8) ±(.5)	
В	1.62 ±.02	(41.1) ±(.5)	
C_	1.81 ±.02	(46.0) ±(.5)	
D	1.50 ±.02	(38.1) ±(.5)	
Е	1.12 ±02	(28.4) ±(.5)	
F	.25 ±04	(6.4) ±(1.0)	
G	1.50 ±04	(38.1) ±(1.0)	
H	1.69 ±04	(42.9) ±(1.0)	
J	.47 ±04	(11.9) ±(1.0)	
K	.138-32 UNC	2B	

NOTES:

- 1. Dimensions are in inches.
- 2. Metric equivalents are given for general information only.
- 3. Marking shall be on the top and sides of case.
- 4. Dimensional tolerance shall be ±.02 unless otherwise specified.
- 5. For series output connect terminals 4 and 5 together. For parallel output connect pins 3 to 4 and 5 to 6.

INCHES	MM
.02	0.5
.05	1.3
.09	2.3
.17	4.3
.170	4.32
.35	8.9
1.05	26.7

FIGURE 1. Dimensions and configurations.

MIL-T-27/335C

(When numbers in parentheses, i.e , (1-2) are used, they indical: the winding and the extreme terminals of the winding.) REQUIREMENTS Electrical ratings Primary voltage (1-2) 115 volts rms, 400 ±20 hertz Secondary voltage and current (3-6) See table I. Voltampere 50 voltamperes. Working voltage (1-2) 535 volts peak. Design and construction Dimensions and configuration See figure 1 Duty cycle Continuous. Case Encapsulated Material Epoxy fiberglass. Terminals: Turret type. Height .170 inch, maximum. Weight .84 pound, maximum. Operating temperature range -55°C to +130°C. 70,000 feet. Altitude ferminal strength MIL-STD-202, method 211, test condition A, 2 pounds. Dielectric withstanding voltage (each winding, secondary windings connected in series At sea level 1500 volts rms. At reduced barometric pressure 1.25 times the peak working voltage specified Electrical characteristics: Rated load With 115 volts rms and 400 Hz in (1-2), and rated current in secondary, the voltage across (3-6) shall be as specified in table I, ±5 percent. Efficiency. 90 percent minimum at rated load. Temperature rise 35° C with 115 volts rms, 400 hertz across (1-2) at an ambient temperature of 95° C, full load terminals (3-6). Voltage (no load) - Voltage (rated load) x 100 Regulation: Shall not exceed 10 percent Additive, with terminals 2 and 3, and 5 and 4 connected

Polarity

Marking Iscrition

See figure 1. Fart number M27/335- (dash number from table 1)

TABLE I Electrical ratings.

Dash number	Secondary voltage (3-6) (V rms)		Secondary current (3-6) (amperes)	
1.427/335	Series (CT)	Parattet	Serfes	Parallel
-01	10	5	4 00	8.00
- 32	12.6	6.3	4.00	8.00
- 33	16	8	3.12	6.24
-04	25	10	2.50	5.00
- 75	24	12	2.08	4.16
- 06	34	17	1.47	2.94
-07	40	20	1.25	2.50
- 58	56	28	0 99	1.78
-09	88	44	3.56	1.12
-10	120	60	0.41	0.82

QUALITY ASSURANCE PROVISIONS.

Extent of Qualification:

Qualification testing and approval to M27/332-10 and M27/337-10 shall be sufficient to grant qualification approval to MIL-T-27/332 through MIL-T-27/337 inclusive, all parts.

Qualification testing and approval to M27/335-10 shall be sufficient to grant qualification approval to 427/335-01 through M27/335-10.

Revision letters are not used to denote changes due to the extensiveness of the changes.

Custodians: Army - ER Navy - EC Air Force - 85

Review activities. Army - AR Navy - OS

Navy - OS Air Force - 11, 17, 99 DLA - ES

User activities Army - ME Havy - AS, MC Air Force - 19 Preparing activity: Army - ER

Agent DLA - ES

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